

GOVERNMENT OF TELANGANA  
ABSTRACT

MA&UD Department - Engineering- PH&ME- Hon'ble NGT Directions (not to discharge untreated waste water into water bodies & rivers) - Construction of Sewage Treatment Plants in all Urban Local Bodies of Telangana -Administrative sanction for an amount Rs.3769.34 crores (including O&M and Annuity Payments and GST on Interest Component of Annuity Payments) for "Sewerage Projects in 101 ULBs in the State of Telangana under SBM 2.0" - Accorded - Orders Issued.

MUNICIPAL ADMINISTRATION & URBAN DEVELOPMENT (ENGG.) DEPARTMENT

G.O.Rt. No.388

Dated:21.08.2024

Read the following:-

- 1.From the ENC(PH), Hyderabad, Lr.No.:T1/SBM2.0/STPs&I&Ds/2022-23,Dt.:15.04.2023.
- 2.Govt., Memo No. 6361/Engg.2/2023, Dt.02-02-2024]
- 3.From the ENC (PH), Hyderabad, Lr.No.T1/SBM 2.0/STPs & I&Ds/2023-24, Dt: 07.02.2024.

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ORDER:

In the reference 1<sup>st</sup> read above, the Engineer-in-Chief (Public Health) Hyderabad has informed that, the Director (SBM), MoHUA, GoI has communicated the Minutes of Meeting of 7<sup>th</sup> NARC of SBM Urban duly mentioning that Action Plans submitted by the Govt. of Telangana for Urban Water Management have been approved containing proposals costing Rs. 934.60 Crores towards establishment of STPs and I&D for Urban Water Management have been approved in 101 ULBs and requested to issue the RFP for engagement of agencies for establishment, O&M of STPs and construction of I&D structures and to take further action for effective UWM under SBM Urban 2.0.

2. The Engineer-in-Chief (Public Health), Hyderabad has further informed that, the Hon'ble National Green Tribunal have given directions to take measures not to discharge untreated waste water into water bodies & rivers. Government of Telangana has either established or is in the process of establishing STPs in the ULBs of Warangal, Karimnagar, Nizamabad, Siddipet, Nalgonda, Miryalaguda, Suryapet, Sircilla, Gajwel, Vikarabad, Nagar Kurnool, Devarakonda, Alampur, Khammam besides GHMC to meet the requirements of respective prospective years. The ENC (PH) has requested the Government to give suitable directions on taking up STPs in 103 ULBs which are to be funded through SBM 2.0 Scheme.

3. In the reference 2<sup>nd</sup> read above, Government have requested the ENC (PH) to furnish the proposal, duly revising the installed capacity as per the discussions held in this regard by the Principal Secretary to Government MA&UD Department with the Engineer-in-Chief (Public Health), Hyderabad for taking further action in the matter.

4. In the reference 3<sup>rd</sup> read above, the Engineer-in-Chief (Public Health) has stated that previously they have submitted the proposals of SBM 2.0 to the Government for construction of 344 No. of STPs (total capacity of 789.20 MLD, considering 2038 as prospective year) along with I&D Structures with 10 years O&M with a tentative financial implication of about Rs. 5503.107 crores, along with a request to accord permission to invite tenders with open technology on RFP mode in Hybrid Annuity Model without mentioning Internal Bench Mark, pending Administrative Sanction. It was also indicated therein that Administrative Sanction would be sought along with tender approval after finalization of the tenders.

5. The Engineer-in-Chief (Public Health) has further stated that, during the review meeting with the Principal Secretary to Government, MA&UD Dept. on 11-01-2024, the proposals of SBM 2.0 were placed before the Government and it was instructed to take up the proposals in two phases, duly utilizing the GoI share under SBM 2.0 in Phase-I as upfront payment, keeping in view the financial implication, and in single package in order to create healthy competition among available agencies who have experience in executing similar projects in HAM mode.

6. The Engineer-in-Chief (Public Health) has further stated that, after detailed deliberations, it has been decided in the above meeting on the following proposals under SBM 2.0:-

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- Proposals under Phase-I: To consider STPs of only certain catchments of the ULB for the prospective year 2038 satisfying the criteria of SBM 2.0 Guidelines that all towns will need to prepare a DPR containing the provision of minimum one STP (for 70% of current (2025) population). Where there is marginal difference in capacity of STP of the catchment corresponding to the prospective year 2038 when compared to the intended capacity in Phase I (corresponding to 70% of current (2025) population of the town), those STP capacities are further reduced to meet the criteria of SBM 2.0 guidelines with a contemplation to take up capacity augmentation of these STPs as and when required on case to case basis.
- Proposals under Phase-II: Capacity augmentation (on modular basis) of the catchments under consideration in Phase I along with the new catchments deferred in Phase I can be considered in Phase II proposals.

7. The Engineer-in-Chief (Public Health) has also informed that, it has been decided to prepare estimates with the same rates as adopted for AMRUT 2.0 projects i.e., SSR 2022-23 with the cement & steel rates for the month of April 2023 and STP rates from GWSSB SOR for the year 2022-23, since the original proposal was submitted to Govt. on Dt. 15-04-2023. The estimated Operation and Maintenance cost of 115 STPs for 10 years is Rs.1608.50 Crores (*considering 5% non compounding increase on each year's O&M cost*) based on CPHEEO Guidelines, Consortium of IITs report of Ganga River Basin Environment Management Plan and common SSR-2022-23 of Government of Telangana.

8. Stating the above position, the Engineer-in-Chief (Public Health) T.G, Hyderabad has finally requested the Govt., to accord permission on the following:-

- i. Administrative sanction for an amount Rs.3769.34 crores (including O&M and Annuity Payments and GST on Interest Component of Annuity Payments) for "Sewerage Projects in 101 ULBs in the State of Telangana under SBM 2.0".
- ii. Permission to invite tenders in single package under LS contract system with Hybrid Annuity Model (35% upfront and 65% deferred), duly cancelling the G.O.Rt.No.343, MA&UD (UBS) Department, Dt. 29-05-2023.
- iii. Request to address the Govt. of India for permission to utilize the GOI share as upfront payment (35%) during the construction period of initial 2 years and balance (65%) to be paid in 10 annuities by the State Government along with O&M payments, considering the present financial situation of the State Government.
- iv. Permission to invite tenders pending acquisition of land, in relaxation of G.O.Ms.No. 94, I&CAD (PW-COD) Department, Dated: 01-07-2023 and G.O.Ms.No. 1, Finance (Works & Projects-F7) Department, Dt. 25-02-2012 and to initiate the Land Acquisition process parallelly. In case the tender process is postponed till completion of land acquisition process, it may have a cascading effect resulting in cost escalation. Also, GoI is pursuing with the State Government constantly regarding award of the projects under SBM 2.0.
- v. Land Acquisition costs will be submitted to the Government and administrative sanction for those amounts will be sought in due course.
- vi. Permission from State Government to entrust the O&M of sewerage projects under SBM 2.0 for 10 years on completion of capital work at the same tender percentage of capital work, by concluding a separate agreement with the same agency by the ULB.
- vii. To give directions to the DMA, Hyderabad to instruct the Commissioners of the respective ULBs (falling in SBM 2.0) to conclude separate agreements with the same agencies (entrusted with the capital works) for O&M of sewerage schemes proposed under Phase I of SBM 2.0.
- viii. To give directions to the DMA, Hyderabad to instruct the Commissioners of all the respective ULBs for identification of potential users/ industries of treated waste water (minimum of 20%), which enables ULBs to avail 15<sup>th</sup> Finance Commission tied grants.

ix. The draft bid document for the LS Contract System with Hybrid Annuity Model is under preparation and the same will be submitted to the Government in due course for approval.

9. Government after careful examination of the matter, hereby accord permission on the following:-

- i. Administrative sanction is accorded for an amount Rs.3769.34 Crores (including O&M and Annuity Payments and GST on Interest Component of Annuity Payments) for "Sewerage Projects in 101 ULBs in the State of Telangana under SBM 2.0"
- ii. Permission is accorded to invite tenders in single package under LS contract system with Hybrid Annuity Model (35% upfront and 65% deferred), duly cancelling the G.O.Rt.No.343, MA&UD (UBS) Department, Dt. 29-05-2023.
- iii. The Director of Municipal Administration, being the State Mission Director, SBM 2.0 is directed to address the Govt. of India for permission to utilize the GOI share as upfront payment (35%) during the construction period of initial 2 years and balance (65%) to be paid in 10 annuities by the State Government along with O&M payments.
- iv. Permission is accorded to invite tenders pending acquisition of land, in relaxation of G.O.Ms.No.94, I&CAD (PW-COD) Dept.,Dt.01-7-2023 and G.O.Ms.No.1, Finance (Works & Projects-F7) Dept., Dt. 25-02-2012 and to initiate the Land Acquisition process parallelly, and to submit the proposals of Administrative Sanction for land acquisition if required.
- v. Permission is accorded to entrust the O&M of sewerage projects under SBM 2.0 for 10 years on completion of capital work at the same tender percentage of capital work, by concluding a separate agreement with the same agency by the ULB.
- vi. DMA, Hyderabad is directed to instruct the Commissioners of the respective ULBs (falling in SBM 2.0) to conclude separate agreements with the same agencies (entrusted with the capital works) for O&M of sewerage schemes proposed under Phase I of SBM 2.0.
- vii. DMA, Hyderabad is directed to instruct the Commissioners of all the respective ULBs for identification of potential users/ industries of treated waste water (minimum of 20%), which enables ULBs to avail 15<sup>th</sup> Finance Commission tied grants.

10. The following are the Annexures to the G.O.

Annexure-I: Relates to the capacity of STPs in each PH Division.

Annexure-II: Relates to the capital project cost excluding annuity cost for each ULB.

Annexure-III: Relates to the Hybrid Annuity Costs for the project.

11. The Engineer-in-Chief, Public Health/ the Director of Municipal Administration, Telangana, Hyderabad shall take further necessary action accordingly.

(BY ORDER AND IN THE NAME OF THE GOVERNOR OF TELANGANA)

M. DANA KISHORE

PRINCIPAL SECRETARY TO GOVERNMENT

To

The Engineer-in-Chief (PH), Telangana, Hyderabad.

The Director of Municipal Administration, Telangana, Hyderabad.

Copy to:

The OSD to Spl. Secretary to Chief Minister.

OSD to Prl. Secretary to Govt., MA&UD Department.

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// FORWARDED :: BY ORDER //

SECTION OFFICER

**ANNEXURE-I**  
**(to G.O.Rt.No.388, MA&UD(Engg.)Dept., dated:21/08/2024)**  
**SEWERAGE PROJECTS IN 101 ULBs IN THE STATE OF TELANGANA UNDER SBM 2.0**  
**DETAILS OF PROPOSED STPs (TENTATIVE) - DIVISION WISE (Non-AMRUT 1.0 Towns)**

Sl.No	PH Division	Population					Parameters	Proposed STP Capacity in MLD												Total (21=14+20)	
		2011	2023	2025	2038	2053		Less than 0.2 MLD	0.21 to 0.5	0.51 to 1.0	Sub total (less than 1 MLD) (12= 9+10+11)	1.01 to 2.0	Sub total (less than 2 MLD) (14= 9+10+11+13)	2.01 to 5.0	5.01 to 10.0	10.01 to 15.0	15.01 to 20.0	20.01 to 25.0	Sub total (2 to 25 MLD) (20=15+16+17+18+19)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
1	Adilabad	571605	724934	754221	975665	1313116	STPs	No	0	0	0	0,00	2	2,00	4	7	0	0	0	11,00	13,00
								Percentage (%)	0%	0%	0%	0%	15%	15%	31%	54%	0%	0%	0%	61%	100%
							Capacity	MLD	0,00	0,00	0,00	0,00	3,50	3,50	12,30	51,70	0,00	0,00	0,00	64,00	67,50
								Percentage (%)	0%	0%	0%	0%	5%	5%	18%	77%	0%	0%	0%	127%	100%
2	Karimnagar	603373	772274	804740	1052056	1434280	STPs	No	0	0	2	2,00	4	6,00	7	4	0	0	0	11,00	17,00
								Percentage (%)	0%	0%	12%	12%	24%	35%	41%	24%	0%	0%	0%	61%	100%
							Capacity	MLD	0,00	0,00	1,80	1,80	6,60	8,40	24,30	30,20	0,00	0,00	0,00	54,50	62,90
								Percentage (%)	0%	0%	3%	3%	10%	13%	39%	48%	0%	0%	0%	108%	100%
3	Khammam	442228	560852	583510	754835	1015906	STPs	No	0	0	1	1,00	1	2,00	7	3	0	0	0	10,00	12,00
								Percentage (%)	0%	0%	8%	8%	8%	17%	58%	25%	0%	0%	0%	56%	100%
							Capacity	MLD	0,00	0,00	1,00	1,00	1,70	2,70	23,80	27,00	0,00	0,00	0,00	50,80	53,50
								Percentage (%)	0%	0%	2%	2%	3%	5%	44%	50%	0%	0%	0%	101%	100%
4	Mahabubnagar	527246	668677	695691	922993	1242227	STPs	No	0	0	2	2,00	3	5,00	10	3	0	0	0	13,00	18,00
								Percentage (%)	0%	0%	11%	11%	17%	28%	56%	17%	0%	0%	0%	72%	100%
							Capacity	MLD	0,00	0,00	1,70	1,70	5,70	7,40	35,30	23,30	0,00	0,00	0,00	58,60	66,00
								Percentage (%)	0%	0%	3%	3%	9%	11%	53%	35%	0%	0%	0%	117%	100%

5	Nalgond5a	420989	539127	561941	726929	978354	STPs	No	0	0	1	1,00	7	8,00	9	1	0	0	0	10,00	18,00
								Percentage (%)	0%	0%	6%	6%	39%	44%	50%	6%	0%	0%	0%	56%	100%
							Capacity	MLD	0	0	1	1,00	12,6	13,60	28,2	8,5	0	0	0	36,70	50,30
								Percentage (%)	0%	0%	2%	2%	25%	27%	56%	17%	0%	0%	0%	73%	100%
6	Nizamabad	319512	405219	421590	545372	733997	STPs	No	0	0	1	1,00	2	3,00	2	2	1	0	0	5,00	8,00
								Percentage (%)	0%	0%	13%	13%	25%	38%	25%	25%	13%	0%	0%	28%	100%
							Capacity	MLD	0	0	1	1,00	3,2	4,20	5,7	15,3	12	0	0	33,00	37,20
								Percentage (%)	0%	0%	3%	3%	9%	11%	15%	41%	32%	0%	0%	66%	100%
7	Rangareddy	353949	509338	554153	716855	964792	STPs	No	0	0	0	0,00	1	1,00	7	2	0	0	0	9,00	10,00
								Percentage (%)	0%	0%	0%	0%	10%	10%	70%	20%	0%	0%	0%	50%	100%
							Capacity	MLD	0	0	0	0,00	2	2,00	22,6	17,5	0	0	0	40,10	42,10
								Percentage (%)	0%	0%	0%	0%	5%	5%	54%	42%	0%	0%	0%	80%	100%
8	Sangareddy	478613	621496	646467	836274	1125516	STPs	No	0	0	0	0,00	2	2,00	8	1	2	0	0	11,00	13,00
								Percentage (%)	0%	0%	0%	0%	15%	15%	62%	8%	15%	0%	0%	61%	100%
							Capacity	MLD	0,00	0,00	0,00	0,00	3,40	3,40	22,80	6,00	20,50	0,00	0,00	49,30	52,70
								Percentage (%)	0%	0%	0%	0%	6%	6%	43%	11%	39%	0%	0%	98%	100%
9	Warangal	197588	250589	260713	337260	453908	STPs	No	0	0	2	2,00	0	2,00	2	2	0	0	0	4,00	6,00
								Percentage (%)	0%	0%	33%	33%	0%	33%	33%	33%	0%	0%	0%	22%	100%
							Capacity	MLD	0,00	0,00	1,60	1,60	0,00	1,60	8,20	13,00	0,00	0,00	0,00	21,20	22,80
								Percentage (%)	0%	0%	7%	7%	0%	7%	36%	57%	0%	0%	0%	42%	100%
Total		3915103	5052506	5283026	6868239	9262096	STPs	No	0	0	9	9	22	31	56	25	3	0	0	84	115
								Percentage (%)	0%	0%	8%	8%	19%	27%	49%	22%	3%	0%	0%	73%	100%
							Capacity	MLD	0,00	0,00	8,10	8,10	38,70	46,80	183,20	192,50	32,50	0,00	0,00	408,20	455,00
								Percentage (%)	0%	0%	2%	2%	9%	10%	40%	42%	7%	0%	0%	90%	100%

M. DANA KISHORE  
PRINCIPAL SECRETARY TO GOVERNMENT

ANNEXURE-II (to G.O.Rt.No.388, MA&UD(Engg.)Dept., dated:21/08/2024 Sewerage Projects in 101 ULBs in the State of Telangana under SBM 2.0 (Capital Project Cost is Basic Cost incorporated in Hybrid Annuity calculations)							
(Rs. in Crores)							
Sl.No	Division	Name of the ULB	Capital Project Cost	Central Share (As approved in SLTC)	State Share	O&M Cost (ULB Share)	Total Project Cost including O&M
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Adilabad	Bhainsa	12,95	6,00	6,95	17,80	30,75
2		Nirmal	23,60	10,00	13,60	23,80	47,40
3		Khanapur	8,85	2,90	5,95	13,60	22,45
4		Bellampally	13,55	6,60	6,95	17,30	30,85
5		Mandamari	13,25	6,20	7,05	16,90	30,15
6		Manchiryal	23,95	10,00	13,95	22,70	46,65
7		Kythanapally	10,85	4,40	6,45	15,10	25,95
8		Luxettipet	9,85	3,00	6,85	14,20	24,05
9		Chennur	12,05	3,30	8,75	14,20	26,25
10		Naspur	17,00	8,50	8,50	19,10	36,10
11		Kagaznagar	14,15	7,00	7,15	17,40	31,55
12	Karimnagar	Jagtial	26,65	7,92	18,73	25,30	51,95
13		Korutla	26,00	7,90	18,10	19,20	45,20
14		Metpally	15,80	6,40	9,40	16,90	32,70
15		Dharmapuri	8,10	2,30	5,80	13,30	21,40
16		Raikal	10,20	2,20	8,00	15,20	25,40
17		Huzurabad	20,35	4,60	15,75	19,10	39,45
18		Jammikunta	14,80	5,60	9,20	16,00	30,80
19		Kothapalli	6,40	1,70	4,70	12,60	19,00
20		Choppadandi	8,60	2,30	6,30	13,70	22,30
21		Peddapalli	17,00	6,30	10,70	18,60	35,60
22		Sultanabad	10,55	2,70	7,85	14,20	24,75
23		Manthani	10,95	2,30	8,65	14,20	25,15
24		Vemulawada	15,30	5,80	9,50	16,40	31,70
25		Sircilla	22,00	10,60	11,40	11,00	33,00
26	Warangal	Parkal	11,20	3,30	7,90	16,00	27,20
27		Bhupalpally	14,70	7,00	7,70	17,70	32,40
28		Jangoan	14,90	6,50	8,40	16,90	31,80
29		Wardhannapet	8,45	2,00	6,45	14,60	23,05
30		Narsampet	11,10	4,90	6,20	15,30	26,40
31	Khammam	Kothagudem	18,60	9,30	9,30	20,50	39,10
32		Manuguru	13,80	4,30	9,50	15,10	28,90
33		Palvancha	18,60	9,30	9,30	20,40	39,00
34		Yellandu	10,85	4,50	6,35	15,10	25,95
35		Madhira	11,40	4,30	7,10	15,10	26,50
36		Sattupalli	14,00	4,40	9,60	17,10	31,10
37		Wyra	10,85	4,20	6,65	15,10	25,95
38		Mahabubabad	16,40	8,20	8,20	18,70	35,10
39		Dornakal	7,10	2,10	5,00	13,00	20,10
40		Maripeda	8,65	2,20	6,45	13,80	22,45
41		Thorrur	8,40	2,60	5,80	13,60	22,00
42	Mahabubnagar	Alampur	6,45	0,80	5,65	13,10	19,55
43		Gadwal	16,40	8,20	8,20	18,70	35,10
44		Ieeja	16,10	3,70	12,40	14,50	30,60
45		Waddepalle	12,15	2,00	10,15	13,30	25,45
46	Mahabubnagar	Bhoothpur	11,20	1,70	9,50	14,70	25,90
47		Jadcherla	19,40	6,50	12,90	20,80	40,20
48		Atchampet	12,40	4,00	8,40	15,10	27,50
49		Kalwakurthy	14,00	4,10	9,90	15,10	29,10
50		Kollapur	13,15	3,40	9,75	14,20	27,35
51		Kosgi	11,80	3,20	8,60	14,50	26,30
52		Makthal	10,70	3,10	7,60	14,70	25,40
53		Narayanapet	13,90	5,30	8,60	16,00	29,90
54		Amarchinta	8,50	1,60	6,90	13,30	21,80
55		Atmakur	10,15	2,00	8,15	14,10	24,25
56		Kothakota	12,05	2,60	9,45	14,40	26,45
57		Pebbair	9,85	2,20	7,65	14,20	24,05
58		Wanaparthly	16,60	8,30	8,30	18,70	35,30

59	Nizamabad	Banswada	10,65	4,10	6,55	15,60	26,25
60		Kamareddy	23,85	11,90	11,95	22,30	46,15
61		Yellareddy	11,20	2,70	8,50	15,30	26,50
62		Armoor	22,80	7,80	15,00	20,40	43,20
63		Bheemgal	8,45	2,00	6,45	13,20	21,65
64		Bodhan	19,20	9,60	9,60	20,40	39,60
65	Sangareddy	Medak	13,10	6,30	6,80	17,80	30,90
66		Narsapur	8,25	2,40	5,85	13,40	21,65
67		Ramayampet	8,80	2,50	6,30	13,30	22,10
68		Thoopran	10,55	3,20	7,35	14,20	24,75
69		Andol-Jogipet	11,35	3,50	7,85	14,20	25,55
70		Narayankhed	9,35	2,30	7,05	13,80	23,15
71		Sadasivapet	15,80	5,60	10,20	18,10	33,90
72		Sangareddy	20,40	10,20	10,20	20,70	41,10
73		Zaheerabad	20,80	10,40	10,40	20,40	41,20
74		Cherial	8,30	2,30	6,00	13,60	21,90
75		Dubbaka	9,95	3,90	6,05	14,60	24,55
76		Husnabad	11,65	3,30	8,35	14,00	25,65
77	Rangareddy	Amangal	9,85	3,60	6,25	15,20	25,05
78		Ibrahimpattanam	12,55	4,20	8,35	15,50	28,05
79		Kothur	7,85	2,10	5,75	13,30	21,15
80		Shadnagar	19,85	6,70	13,15	20,00	39,85
81		Shankarpally	11,05	3,20	7,85	14,70	25,75
82		Kodangal	8,70	2,10	6,60	13,70	22,40
83		Parigi	9,05	2,30	6,75	13,40	22,45
84		Tandur	16,85	8,40	8,45	18,70	35,55
85	Nalgonda	Medchal	18,35	5,70	12,65	19,50	37,85
86		Chandur	7,30	1,70	5,60	13,90	21,20
87		Chityal	7,20	2,20	5,00	13,20	20,40
88		Devarakonda	11,15	1,60	9,55	13,30	24,45
89		Haliya	8,10	2,40	5,70	13,30	21,40
90		Nakrekal	10,30	4,00	6,30	14,60	24,90
91		Nandikonda	9,70	2,10	7,60	13,30	23,00
92		Huzurnagar	12,05	4,70	7,35	15,60	27,65
93		Kodada	19,20	8,80	10,40	19,10	38,30
94		Neredcherla	8,05	2,10	5,95	13,10	21,15
95		Tirumalagiri	9,30	2,50	6,80	13,40	22,70
96		Alair	9,90	2,40	7,50	13,60	23,50
97		Bhongir	22,65	7,20	15,45	19,80	42,45
98		Choutuppal	14,05	4,20	9,85	15,30	29,35
99		Mothkur	10,00	2,10	7,90	13,60	23,60
100		Pochampally	9,10	2,40	6,70	15,20	24,30
101		Yadagirigutta	9,95	2,08	7,87	13,70	23,65
	Total		1323,10	463,10	860,00	1608,50	2931,60
Note: Gajwel, Vikarabad and Nagarkurnool ULBs are excluded as these ULBs have existing STPs exceeding the requirement of 70% of 2025 population.							

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	ANNEXURE-III - Sheet 1 (to G.O.Rt.No.388, MA&UD(Engg.)Dept., dated:21/08/2024) HAM Calculations 35% of Project Cost (incl. Provisions) as upfront					Reference
1	Capital Cost (incl. Provisions)			1323,100	Cr	Column (4) Total of Annexure II
2	O& M Cost for First Year			131,31	Cr	
3	HAM Ratio		Initial Payment	35	% of capital	
4			Deferred Payment	65	% of Capital	
5	Repayment Period			10	Years	
6	Annuity Payments/Year			1		
7	Construction Period			2	years	
8	Interest Rate			10,25	%	SBI Base Rate as on 15-12-2023
9	Annual Increase in O & M (Non Compounding)			5	%	
10	IDC (Interest during Construction)			88,160	Cr	
11	GST on IDC @ 18%			15,870	Cr	18% on value at Sl. No. 10
12	Repayment during Construction (35% of Capital Project cost)			463,100	Cr	35% on value at Sl. No. 1
13	Defered payment including IDC			964,050	Cr	(65% on value at Sl. No. 1) + (Value @ Sl. No. 10) + (Value @ Sl. No. 11)
14	O& M Cost for Ten Years			1608,500	Cr	Column (7) Total of Annexure II
15	Total Project cost including O&M (without HAM)			2931,600	Cr	(Value @ Sl. No. 1) + (Value @ Sl. No. 14)
16	Total Annual Payments (HAM, O&M) excl. GST on Interest Component of Annuity Payments			3194,300	Cr	Sum of (EAI and O&M) in below table
17	Interest Component of Annuity Payments			621,820	Cr	Column (3) of Sheet 2 of Annexure III
18	GST (18%) on Interest Component of Annuities			111,940	Cr	18% on value at Sl. No. 17
19	Total Project Cost under HAM (During Construction + Annual Payment + O&M+ GST on Interest Component on Annuity Payments)			3769,340	Cr	(Value @ Sl. No. 12) + (Value @ Sl. No. 16) + (Value @ Sl. No. 18)

Repayment Schedule Under HAM (excluding GST on Interest component of Annuity Payments)				
(Rs. in Crores)				
S.No	Repayment Year after COD	Capital repayment (EAI)	O & M	Annual Amount to be paid
1	1	158,580	131,306	289,886
2	2	158,580	137,871	296,451
3	3	158,580	144,437	303,017
4	4	158,580	151,002	309,582
5	5	158,580	157,567	316,147
6	6	158,580	164,133	322,713
7	7	158,580	170,698	329,278
8	8	158,580	177,263	335,843
9	9	158,580	183,829	342,409
10	10	158,580	190,394	348,974
	Total	1585,800	1608,500	3194,300

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ANNEXURE-III - Sheet 2 (to G.O.Rt.No.388, MA&UD(Engg.)Dept., dated:21/08/2024) Schedule of Annuity Installments					
				Rs. in Crores	
Loan Amount	964,050				
Loan Term (Years)	10				
Payments Per Year	1				
Rate of Interest	10,25%		-		
Annual Installment	158,580				
Vaes are rounded to "0" --- Calculator is good for "20					
S.No	Annual Installment	Interest	Principal	Balance	GST on Interest Component
(1)	(2)	(3)	(4)	(5)	(6)
0				964,050	
1	158,580	98,820	59,760	904,290	17,790
2	158,580	92,690	65,890	838,400	16,680
3	158,580	85,940	72,640	765,760	15,470
4	158,580	78,490	80,090	685,670	14,130
5	158,580	70,280	88,300	597,370	12,650
6	158,580	61,230	97,350	500,020	11,020
7	158,580	51,250	107,330	392,690	9,230
8	158,580	40,250	118,330	274,360	7,250
9	158,580	28,120	130,460	143,900	5,060
10	158,580	14,750	143,900	0,000	2,660
Total	1585,800	621,820	964,050		111,940

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Annexure-III - Sheet 3 (to G.O.Rt.No.388, MA&UD(Engg.)Dept., dated:21/08/2024)								
Payment Schedule and Sharing Pattern of Finances for the Project Under Hybrid Annuity Model								
Rs. In Crores								
S.No.	Payment Year	Capital Project cost Payment during Construction & after achieving COD	GST on Interest Component of Annuity Payments	O & M cost	Annual Amount to be paid in Crores of INR	Sharing Pattern		Remarks
						GoI Share	GoT/ULB Share	
1	CY 1	231,55			231,550	231,550	0,000	35% of Capital Project Cost (incl. Provisions) to be paid during construction period, proposed to be met from GoI share.
2	CY 2	231,55			231,550	231,550	0,000	
3	1st year after achieving COD	158,580	17,790	131,306	307,676		307,676	65% of Capital Project Cost along with Provisions to be paid in 10 Annuities along with Operation & Maintenance Payments including GST on Interest component of Annuity Payments.  Annuity Payments to be met from GoT state share.  O&M Payments to be met from ULB share
4	2nd year after achieving COD	158,580	16,680	137,871	313,131		313,131	
5	3rd year after achieving COD	158,580	15,470	144,437	318,487		318,487	
6	4th year after achieving COD	158,580	14,130	151,002	323,712		323,712	
7	5th year after achieving COD	158,580	12,650	157,567	328,797		328,797	
8	6th year after achieving COD	158,580	11,020	164,133	333,733		333,733	
9	7th year after achieving COD	158,580	9,230	170,698	338,508		338,508	
10	8th year after achieving COD	158,580	7,250	177,263	343,093		343,093	
11	9th year after achieving COD	158,580	5,060	183,829	347,469		347,469	
12	10th year after achieving COD	158,580	2,660	190,394	351,634		351,634	
	Total	2048,900	111,940	1608,500	3769,340	463,100	3306,240	

CY1: Construction Year 1

CY2: Construction Year 2

COD: Commercial Operation date

M. DANA KISHORE

